

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Juan, Puerto Rico

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

May

2013

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Althea Austin-Smith,
Service Hydrologist

DATE

06/15/2013

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan ASOS reported 14.54 inches of rain for the month of May; 8.64 inches greater than the normal of 5.90 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 4.48 inches for the month of May; 1.42 inches greater than the normal of 3.06 inches. The ASOS rainfall report from Christiansted Airport in St. Croix was 5.04 inches for the month of May; 0.89 inches greater than the normal of 4.15 inches.

"During the beginning of May 2013, the subtropical high moved northward and loosened its firm grip on weather conditions across the Caribbean. This retreat made way for atmospheric disturbances to penetrate the region including a few tropical waves. In addition, a fairly persistent area of upper level troughiness dominated the forecast area. This resulted in the wettest month of the year so far across Puerto Rico and the third wettest May on record at the San Juan area with 20 days of measurable precipitation. Overall, the wettest sectors of the island were the north coast and western interior, which both received 200 to 300% of their normal precipitation for the month."

(Excerpt - Please see (<http://www.srh.noaa.gov/sju/?n=may2013cr>) for May's complete Climate Report.)

With the record breaking rainfall, it is to be expected that flooding would be a problem, which it was across the Islands. May's rainfall also eliminated any remaining areas of drought that remained after the dry season. Unlike some months, the flooding was not concentrated in any one area but affected many different areas at different times throughout the month. The most significant flooding was experienced in the San Juan Metro area in the Rio Piedras basin. Unfortunately, there were also some deaths this month indirectly related to the swollen Guatemala River in San Sebastian but directly related to a car accident which resulted in one of the vehicles going over a cliff and falling into the river. The car was swept away claiming the life of two, the other three were rescued.

Flooding across the area led to numerous road closures and mudslides but there were not any reports of families being displaced by these events.

(Please see details in the [May "E3" Flood Crest Report](#) and the Local Storm Reports table below)

See details of some flood reports in the LSR reports below:

| Local Storm Reports for May 2013 | | | |
|----------------------------------|--|--------------------------------|-------------------------------------|
| ..TIME... | ...EVENT... | ...CITY LOCATION... | ...LAT.LON... |
| ..DATE... |MAG.... | ..COUNTY LOCATION..ST.. | ...SOURCE.... |
| 0610 PM 05/01/2013 | FLOOD | ARECIBO ARECIBO | 18.46N 66.74W PR EMERGENCY MNGR |
| | FLOOD PROBLEMS AT ROAD 2 AT ARECIBO. SOME BUSINESS AFFECTED. | | |
| 0427 PM 05/06/2013 | FLASH FLOOD | VEGA ALTA VEGA ALTA | 18.42N 66.32W PR EMERGENCY MNGR |
| | ROAD 620 IN VEGA ALTA CLOSED DUE TO MAVILLA RIVER OUT OF ITS BANKS. | | |
| 0537 PM 05/06/2013 | FLOOD | PONCE PONCE | 17.99N 66.61W PR CO-OP OBSERVER |
| | NUMEROUS STREETS FLOODED IN THE CITY OF PONCE. | | |
| 0224 PM 05/07/2013 | FLOOD | BARRANQUITAS BARRANQUITAS | 18.19N 66.31W PR PUBLIC |
| | HEAVY RAINFALL LED TO URBAN FLOODING IN SECTOR PALO INCADO NEAR ROAD 720. | | |
| 0327 PM 05/07/2013 | FLOOD | SAN SEBASTIAN SAN SEBASTIAN | 18.34N 67.00W PR TRAINED SPOTTER |
| | ROAD 111 CLOSED DUE TO URBAN FLOODING. | | |
| 0400 PM 05/07/2013 | FLOOD | SAN SEBASTIAN SAN SEBASTIAN | 18.34N 67.00W PR EMERGENCY MNGR |
| | ROAD 125 CLOSED DUE TO URBAN FLOODING. | | |
| 0540 PM 05/07/2013 | FLASH FLOOD | VEGA ALTA VEGA ALTA | 18.42N 66.32W PR EMERGENCY MNGR |
| | RIO CIBUCO IN VEGA ALTA WAS FLOODED AND AFFECTING ROADS 602...647...675...676...690...AND ROAD NUMBER 2. | | |
| 0600 PM 05/07/2013 | FLASH FLOOD | LARES LARES | 18.30N 66.88W PR EMERGENCY MNGR |
| | SMALL RIVER KNOWN AS RIO DE VEINTICINCO IS FLODDER AND AFFECTING ROAD 671 MAKING IT IMPASSABLE. | | |

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|--|-------------|--------------------------------|-------------------------------------|
| 0600 PM 05/07/2013 | FLASH FLOOD | CIALES CIALES | 18.34N 66.47W PR PUBLIC |
| REPORT WITH PICTURE SHARED VIA SOCIAL MEDIA SHOWED THAT THE RIO GRANDE DE MANATI HAD COMPLETELY FLOODED A ROAD IN THE MUNICIPALITY OF CIALES. | | | |
| 1000 PM 05/07/2013 | FLOOD | MOCA MOCA | 18.40N 67.11W PR EMERGENCY MNGR |
| RIO CULEBRINAS IN MOCA WAS REPORTED OUT OF ITS BANKS AND IS FLOODING ROAD 110. | | | |
| 0224 PM 05/07/2013 | FLOOD | BARRANQUITAS BARRANQUITAS | 18.19N 66.31W PR PUBLIC |
| HEAVY RAINFALL LED TO URBAN FLOODING IN SECTOR PALO INCADO NEAR ROAD 720. | | | |
| 0327 PM 05/07/2013 | FLASH FLOOD | SAN SEBASTIAN SAN SEBASTIAN | 18.34N 67.00W PR TRAINED SPOTTER |
| *** 2 FATAL, 3 INJ *** ROAD 111 AND ROAD 125 CLOSED DUE TO GUATEMALA RIVER OUT OF ITS BANKS. A COLLISION BETWEEN TWO VEHICLES, A CAR FELL OVER A CLIFF WHERE THE CAR WAS EVENTUALLY SWEEP AWAY BY THE RISING WATERS. TWO YOUNG WOMEN WERE SWEEP AWAY AND THEN FOUND DEAD. THREE OTHER PEOPLE WERE RESCUED. | | | |
| 0900 AM 05/08/2013 | FLOOD | AGUADA AGUADA | 18.38N 67.19W PR EMERGENCY MNGR |
| EMERGENCY MANAGER AND PUBLIC REPORTED ROADS 418 AND 115 CLOSED DUE TO CULEBRINAS RIVER FLOODING. | | | |
| 0502 PM 05/10/2013 | FLASH FLOOD | VEGA ALTA VEGA ALTA | 18.42N 66.32W PR EMERGENCY MNGR |
| QUEBRADA MACHUCHAL AND QUEBRADA HONDA BOTH ARE OUT THEIR BANKS. | | | |
| 0615 PM 05/10/2013 | FLASH FLOOD | LARES LARES | 18.30N 66.88W PR EMERGENCY MNGR |
| ROAD 111 FLOODED DUE TO HEAVY RAIN AND QUEBRADA ANON...QUEBRADA MOLINO...RIO MONTEBELLO...AND RIO GUAJATACA BEING FLOODED. | | | |
| 0736 PM 05/10/2013 | FLOOD | GUAYNABO GUAYNABO | 18.39N 66.11W PR EMERGENCY MNGR |
| URBAN FLOODING IN THE SAN PATRICIO AREA. | | | |
| 0740 PM | FLOOD | SAN JUAN | 18.41N 66.06W |

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|------------|-------------|--|----|----------------|--|
| 05/10/2013 | | SAN JUAN | PR | EMERGENCY MNGR | |
| | | PARTS OF ROOSEVELT AVE FLOODED IN HATO REY. | | | |
| 0855 PM | FLASH FLOOD | NAGUABO | | 18.21N 65.74W | |
| 05/10/2013 | | NAGUABO | PR | EMERGENCY MNGR | |
| | | RIO BLANCO OUT OF ITS BANKS FLOODING ROUTE 31. | | | |
| 0900 PM | FLASH FLOOD | NAGUABO | | 18.21N 65.74W | |
| 05/10/2013 | | NAGUABO | PR | EMERGENCY MNGR | |
| | | FLOODING IN ROUTE 983. | | | |
| 1000 PM | FLOOD | CAROLINA | | 18.41N 65.98W | |
| 05/10/2013 | | CAROLINA | PR | NWS EMPLOYEE | |
| | | FLOODING AT INTERSECTION OF ROUTES 3 AND 8. | | | |
| 0308 PM | FLASH FLOOD | NAGUABO | | 18.21N 65.74W | |
| 05/15/2013 | | NAGUABO | PR | EMERGENCY MNGR | |
| | | ROAD 31 WAS REPORTED IMPASSABLE DUE TO RIO BLANCO OUT OF ITS BANKS. | | | |
| 0308 PM | FLASH FLOOD | CANOVANAS | | 18.38N 65.91W | |
| 05/15/2013 | | CANOVANAS | PR | EMERGENCY MNGR | |
| | | RIO CANOVANAS WAS REPORTED OUT OF ITS BANKS. | | | |
| 0308 PM | FLASH FLOOD | RIO GRANDE | | 18.38N 65.84W | |
| 05/15/2013 | | RIO GRANDE | PR | EMERGENCY MNGR | |
| | | DOWNTOWN RIO GRANDE WAS REPORTED FLOODED. | | | |
| 0115 PM | FLOOD | TRUJILLO ALTO | | 18.36N 66.02W | |
| 05/22/2013 | | TRUJILLO ALTO | PR | PUBLIC | |
| | | MUDSLIDE AT ROAD 851 IN TRUJILLO ALTO LA GLORIA SECTOR. | | | |
| 0410 PM | FLOOD | GUAYNABO | | 18.39N 66.11W | |
| 05/22/2013 | | GUAYNABO | PR | EMERGENCY MNGR | |
| | | URBAN FLOODING IN SOME AREAS OF ROAD 169 NEAR SAN PATRICIO MALL. | | | |
| 0415 PM | FLOOD | BAYAMON | | 18.38N 66.16W | |
| 05/22/2013 | | BAYAMON | PR | EMERGENCY MNGR | |
| | | URBAN FLOODING ON ROAD 837 NEAR A RESIDENTIAL AREA AT SANTA ROSA 1 AND BARRIO CANTA GALLO. | | | |
| 0516 PM | FLOOD | CAGUAS | | 18.23N 66.04W | |
| 05/22/2013 | | CAGUAS | PR | EMERGENCY MNGR | |
| | | RIO CANAS WAS REPORTED OUT OF ITS BANKS AT BARRIO CANAS. | | | |

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|--|-------|----------------------------|----|-----------------------------------|
| 0516 PM 05/22/2013 | FLOOD | LAS PIEDRAS LAS PIEDRAS | PR | 18.18N 65.87W PUBLIC |
| OLYMPIC VILLE IN LAS PIEDRAS WAS REPORTED FLOODED. | | | | |
| 0506 PM 05/27/2013 | FLOOD | SAN JUAN SAN JUAN | PR | 18.41N 66.06W PUBLIC |
| VIA SOCIAL MEDIA...URBAN FLOODING REPORTED AT RIO PIEDRAS NEAR MONTE HATILLO. | | | | |
| 0937 PM 05/27/2013 | FLOOD | SAN JUAN SAN JUAN | PR | 18.41N 66.06W PUBLIC |
| VIA SOCIAL MEDIA...URBAN FLOODING REPORTED AT AVE PINERO/CESAR GONZALEZ. | | | | |
| 0743 PM 05/27/2013 | FLOOD | ARECIBO ARECIBO | PR | 18.46N 66.74W EMERGENCY MNGR |
| EMERGENCY MNGR INDICATED URBAN FLOODING AT SECTOR PUNTILLA ARECIBO. | | | | |
| 0715 PM 05/27/2013 | FLOOD | VEGA ALTA VEGA ALTA | PR | 18.42N 66.32W EMERGENCY MNGR |
| EMERGENCY MNGR REPORTED AREAS AT BARRIO MACHUCHAL FLOODED. | | | | |
| 0827 AM 05/31/2013 | FLOOD | 3 SE LUQUILLO LUQUILLO | PR | 18.35N 65.69W PARK/FOREST SRVC |
| RIO MAMEYES HAS LEFT ITS BANKS AND WATER IS COVERING ROUTE 191 BETWEEN KILOMETERS 2 AND 3. | | | | |
| 0845 AM 05/31/2013 | FLOOD | 1 E LUQUILLO AMZ712 | PR | 18.38N 65.71W EMERGENCY MNGR |
| RIO MAMEYES HAS FLOODED A SECTION OF HIGHWAY 992 IN SECTOR CARBALI AND IT IS IMPASSABLE. | | | | |

The approximate amounts of Hydrologic Products issued during the month of May are as follows:

| Non-Routine Hydrologic Products Issued: | Approximate number of Products for the month |
|---|--|
| Hydrologic Outlooks (SJUESFSJU) | 0 |
| Flood Watches (SJUFFASJU) | 8 |
| Flood Warnings (SJUFLWSJU) | 5 |
| Flash Flood Warnings (SJUFFWSJU) | 19 |
| Flash Flood Statements (SJUFFSSJU) | 19 |
| Urban/Small Stream Flood Advisories (SJUFLSSJU) | 203 |

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on the Precipitation interface for San Juan, Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR) - [AHPS archive of radar totals/ images](#) . Here are the [May 2013 totals](#).